This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An isolated polynucleotide that encodes ~~a human ß1A sodium channel subunit protein, said polynucleotide comprising a sequence selected from a group consisting of~~:

(a) ~~a polynucleotide encoding~~ SEQ ID NO:14; or

(b) ~~a polynucleotide encoding a polypeptide comprising~~ amino acids 150 to 268 of SEQ ID NO:14.

2. (Original) The polynucleotide of claim 1 wherein the polynucleotide is RNA.

3. (Original) The polynucleotide of claim 1 wherein the polynucleotide is DNA.

4. (Previously Presented) The polynucleotide of claim 1 having a nucleotide sequence selected from the group consisting of SEQ ID NO:12 and SEQ ID NO:13.

5. (Canceled)

6. (Previously Presented) The polynucleotide of claim 1, wherein said polynucleotide is genomic DNA.

7. (Currently Amended) An expression vector ~~for expression of a human ß1A sodium channel subunit protein in a recombinant host, wherein said vector contains~~ containing a recombinant polynucleotide encoding SEQ ID NO:14.

8. (Currently Amended) The expression vector of claim 7, ~~wherein the expression vector contains a polynucleotide encoding a human ß1A sodium channel subunit protein and~~ having a nucleotide sequence selected from the group consisting of SEQ ID NO:12, and SEQ ID NO:13~~, allelic variants of SEQ ID NOs:12 or 13, and functional derivatives of SEQ ID NOs:12 or 13~~.

9. (Canceled)

10. (Currently Amended) The expression vector of claim 7, wherein the expression vector contains genomic DNA encoding ~~a human ß1A sodium channel subunit protein of~~ SEQ ID NO:14.

11. (Currently Amended) A host cell containing a recombinant polynucleotide encoding ~~a human ß1A sodium channel subunit protein of~~ SEQ ID NO:14 ~~or a functional derivative thereof~~.

12. (Previously Presented) The host cell of claim 11, wherein said polynucleotide has a nucleotide sequence selected from the group consisting of SEQ ID NO:12, and SEQ ID NO:13.

13. (Previously Presented) The host cell of claim 11, wherein said polynucleotide is genomic DNA.

14-16. (Canceled)

17. (Currently Amended) A process for expressing a ~~human ß1A sodium channel subunit~~ protein in a host cell, comprising:

(a) introducing an expression vector ~~encoding a human ß1A sodium channel subunit protein,~~ into a cell, wherein the vector comprises a ~~nucleic acid sequence~~ ~~capable of hybridizing to a nucleotide sequence having the sequence of SEQ ID NO:12 or SEQ ID NO:13~~polynucleotide encoding SEQ ID NO:14, or ~~it's complementary sequence~~ a polynucleotide whose sequence is complementary thereto~~, wherein the hybridization conditions comprise incubation in 50% formamide, 6X SSC, 1% SDS at 42 C for 12-19 hours, washing in at least two successive washes at 22 C, followed by stringent washes at 65 C in a buffer of 0.04M sodium phosphate, pH 7.2, 1% SDS and 1mM EDTA~~;

(b) culturing the cell of step (a) under conditions which allow expression of a protein encoded by the expression vector, or by the complement thereto.

18 - 34. (Canceled)